

09/786, 276
SEARCH TRANSCRIPT
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=> file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE ENTRY
TOTAL SESSION
0.21 0.21

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DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s ruthenium
L1 105534 RUTHENIUM
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE ENTRY
TOTAL SESSION
4.62 4.83

FILE 'REGISTRY' ENTERED AT 13:39:27 ON 27 MAY 2003
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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jun 03 New e-mail delivery for search results now available
NEWS 4 Aug 08 PHARMAMarketletter(PHARMAML) - new on STN
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 7 Sep 03 JAP10 has been reloaded and enhanced
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1967 to 1985
NEWS 11 Oct 24 BEILSTEIN adds new search fields
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17 TOXCENTER enhanced with additional content
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TENA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27 Mar 20 EVENTLINE will be removed from STN
NEWS 28 Mar 24 PATDPAFULL now available on STN
NEWS 29 Mar 24 Additional information for trade-named substances without structures available in REGISTRY
NEWS 30 Apr 11 Display formats in DGENE enhanced
NEWS 31 Apr 14 MEDLINE Reload
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPIDEX/WPIX
NEWS 35 Apr 28 RDISCLOSURE now available on STN
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 38 May 15 Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS 39 May 16 CHEMREACT will be removed from STN
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

STRUCTURE FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1
DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STnote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file..... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1953

L2 SCREEN CREATED

=> Uploading C:\Program Files\Stnexp\Queries\KR ruthenium lipase.str

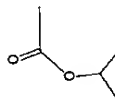
L3 STRUCTURE UPLOADED

=> que L3 NOT L2

L4 QUE L3 NOT L2

=> d 14

L4 HAS NO ANSWERS
L2 SCR 1953
L3 STR



Structure attributes must be viewed using STN Express query preparation.
L4 QUE ABB-ON PLU-ON L3 NOT L2

=> s 14 sss full
FULL SEARCH INITIATED 13:40:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 627191 TO ITERATE

63.8% PROCESSED 400000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.04
193167 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 627191 TO 627191
PROJECTED ANSWERS: 301236 TO 304526

L5 193167 SEA SSS FUL L3 NOT L2

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE ENTRY
TOTAL SESSION
148.15
152.98
FILE 'CAPLUS' ENTERED AT 13:40:12 ON 27 MAY 2003
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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22
FILE LAST UPDATED: 26 May 2003 (20030526/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 15 and 11
55368 L5
75885 L1
L6 514 L5 AND L1

=> s 16 and racemic and lipase
29006 RACEMIC
12 RACEMICS
29010 RACEMIC
(RACEMIC OR RACEMICS)
39468 LIPASE
8867 LIPASES
40846 LIPASE
(LIPASE OR LIPASES)
L7 9 L6 AND RACEMIC AND LIPASE

=> d 1-9

L7 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN 2002:314889 CAPLUS
DN 136:340534

T1 Method for the production of asymmetrically substituted acylolones and
derivatives and for the production of epothilones B, D and their
derivatives

IN Wessjohann, Ludger A.; Scheid, Guenther; Bornscheuer, Uwe; Henke, Erik;
Kuit, Wouter; Orru, Romano
PA Morphochem A.-G., Germany
SO PCT Int. Appl., 182 pp.
CODEN: PIXXD2

DT Patent
LA German
FAN.CNT 2

PATENT NO. KIND DATE APPLICATION NO. DATE
PI WO 2002032844 A2 20020425 WO 2001-EP11992 20011016
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, LY, MA, MD, MG, MK, MN, MM, MX, MY, NZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MM, ZW, AM, AZ, BY, BG, BG, KZ, MD, RU, TJ, TM, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10051136 A1 20020418
DE 10134172 A1 20030123
AU 2002021693 A5 20020429
PRAI DE 2000-10051136 A 20001016
DE 2001-10134172 A 20010713
WO 2001-EP11992 W 20011016
OS CASREACT 136:340534; MARPAT 136:340534

L7 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN 2002:255775 CAPLUS
DN 137-278899
TI Dynamic kinetic resolution of .gamma.-hydroxy acid derivatives
CS Rummo, Ann-Britt L.; Farnes, Oscar; Faber, Kurt; Backvall, Jan-E.
Arrenhius Laboratory, Department of Organic Chemistry, Stockholm
University, Stockholm, SE-10691, Sweden.
SO Tetrahedron Letters (2002), 43(16), 2983-2986
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
PT English
LA English
OS CASREACT 137:278899
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN 2002:64783 CAPLUS
DN 136:263059
TI Enzymatic Kinetic Resolution and Chemodynamic Dynamic Kinetic Resolution
of .delta.-Hydroxy Esters. An Efficient Route to Chiral .delta.-Lactones
AU Pantes, Oscar; Backvall, Jan-E.
CS Arrenhius Laboratory, Department of Organic Chemistry, Stockholm
University, Stockholm, SE-106 91, Sweden.
SO Journal of Organic Chemistry (2002), 67(4), 1261-1265
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
PT English
LA English
OS CASREACT 136:263059
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN 2001:669911 CAPLUS
DN 136:37080
TI Efficient lipase-catalyzed kinetic resolution and dynamic
kinetic resolution of .beta.-hydroxy nitriles. A route to useful
precursors for .gamma.-amino alcohols
AU Pantes, Oscar; Backvall, Jan-E.
CS Department of Organic Chemistry, Arrhenius Laboratory, Stockholm
University, Stockholm, 106 91, Sweden.
SO Advanced Synthesis & Catalysis (2001), 343(6-7), 726-731
CODEN: ASCAF7; ISSN: 1615-4150
PB Wiley-VCH Verlag GmbH
DT Journal
PT English
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7	ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN	2001:416874 CAPLUS
DN	135:19231
TI	Stereoselective method for preparing chiral esters from alkenyl esters via ruthenium-catalyzed reduction and enzymatic resolution
PA	Park, Jai Wook; Kim, Mahn-Joo; Koh, Jeong Hwan; Jung, Hyun Min
IN	Samsung Fine Chemicals Co., Ltd., S. Korea; Pohang University of Science and Technology
SO	PCT Int. Appl. 19 pp.
DT	CODEN: PIXXD2
LA	Patent English
FAN_CNT 1	PATENT NO. KIND DATE APPLICATION NO. DATE
PPI	WO 2001040157 A1 20010607 WO 2000-KR1169 20001018 W: CR, AG, AL, AM, AT, AZ, BA, BG, BY, BZ, CA, CH, CN, AE, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KP, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TW, TR, TT, TZ, UA, UG, US, UZ, VM, YU, ZA, ZW, AM, AZ, BA, BG, BK, KG, KD, MD, RU, TD, TN RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LJ, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, GW, HM, IL, MR, NE, SN, TD, TG
EP 1237837 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CV, AL	
JP 2003545336 T2 20030507 JP 2001-541847 20001018	
US 2001012898 A1 20010809 US 2000-726412 20001201	
US 6475773 B2 20021105	
PRAI KR 999-54472 A 19991202	
WO 2000-KR1169 W 20001018	
OS CASREACT 135:19231; MARPAT 135:19231	
RE_CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT	
L7	ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN	2001:412568 CAPLUS
DN	135:152357
TI	Lipase/Ruthenium-Catalyzed Dynamic Kinetic Resolution of Hydroxy Acids, Diols, and Hydroxy Aldehydes Protected with a Bulky Group
AU	Kim, Mahn-Joo; Choi, Yoon Kyung; Choi, Min Young; Kim, Mi Jung; Park, Jaewoek
CS	National Research Laboratory of Chirotechnology Department of Chemistry Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang Kyungbuk, 790-784, S. Korea
SO	Journal of Organic Chemistry (2001), 66(13), 4736-4738 CODEN: JOCEAH; ISSN: 0022-3263
PT	American Chemical Society Journal
DB	English
LO	CASREACT 135:152357
ARE_CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT	
L7	ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN	2001:244193 CAPLUS
DN	135:19788
TI	Enantioselective synthesis of the rictociarpins A and B
CU	Held, Christoph; Frohlich, Roland; Metz, Peter
AC	Institut für Organische Chemie Technische Universität Dresden, Dresden, 01062, Germany
SO	Angewandte Chemie, International Edition (2001), 40(6), 1058-1060

CODEN: ACIEF5; ISSN: 1433-7851

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

OS CASREACT

RE.CNT 28 135:19788

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 2000:455856 CAPLUS

DN 133:222192

TI Dynamic Kinetic Resolution of Allylic Alcohols Mediated by Ruthenium- and

Lipase-Based Catalysts

AU Lee, Dongyun; Huh, Eun A.; Kim, Mahn-Joo; Jung, Hyun Min; Koh, Jeong

Rwan; Park, Jaiwook

CS Department of Chemistry Division of Molecular and Life Science, Pohang

University of Science and Technology, Pohang Kyungbuk, 790-784, S. Korea

SO ORGANIC LETTERS (2000), 2(15), 2377-2379

CODEN: ORLEF7; ISSN: 1523-7060

PB American Chemical Society

DT Journal

LA English

OS CASREACT

RE.CNT 23 133:222192

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 1999:107616 CAPLUS

DN 130:265981

TI Ruthenium- and Enzyme-Catalyzed Dynamic Kinetic Resolution of Secondary

Alcohols

AU Persson, B. Anders; Larsson, Anna L. E.; Le Ray, Mikael; Baekkvall,

Jan-E.

CS Departments of Organic Chemistry, Uppsala University, Uppsala, S-751 21,

Swed.

SO Journal of the American Chemical Society (1999), 121(8), 1645-1650

CODEN: JACSNT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

RE.CNT 97

THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d abs 9

L7 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS

AB Enzymic resolu. of secondary alcs. under substrate racemizing conditions

was studied using an immobilized lipase from *Candida antarctica*

in the presence of a Ru catalyst. A specifically designed acyl donor,

4-chlorophenyl acetate, is compatible with both catalysts and resulted in

an efficient dynamic kinetic resolu. Studies of the reaction in different

solvents showed that nonpolar solvents gave the best results. With this

process, racemic secondary alcs. were transformed to the

corresponding enantiomerically pure acetates, making efficient use of all

starting material. In most cases, the reaction proceeded with >99% ee and

in good yield.

=>

Connection closed by remote host

<-----User Break----->

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NEWS 30 Display formats in DGENE enhanced
NEWS 31 MEDLINE Reload
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NEWS 33 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX
NEWS 35 RDISCLOSURE now available on STN
NEWS 36 Pharmacokinetic information and systematic chemical names
added to PHAR
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NEWS 39 CHENREACT will be removed from STN
NEWS 40 Simultaneous left and right truncation added to WSCA
NEWS 41 RAPRA enhanced with new search field, simultaneous left and
right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

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=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22
FILE LAST UPDATED: 26 May 2003 (20030526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ru or ruthenium
55838 RU
177 RUS
55992 RU
(RU OR RUS)
72360 RUTHENIUM
20 RUTHENIUMS
72360 RUTHENIUM
(RUTHENIUM OR RUTHENIUMS)
L1 89390 RU OR RUTHENIUM

=> s l1 and ester?
810427 ESTER?
L2 2542 L1 AND ESTER?

=> s l2 and (enzyme or lipase)
674537 ENZYME
385496 ENZYMES
847278 ENZYME

(ENZYME OR ENZYMES)
39468 LIPASE
8867 LIPASES
40846 LIPASE
(LIPASE OR LIPASES)
L3 73 L2 AND (ENZYME OR LIPASE)

=> s l3 and (complex or co-catalyst)
1078955 COMPLEX
626500 COMPLEXES
1333637 COMPLEX
(COMPLEX OR COMPLEXES)
722442 CO
21971 COS
743270 CO
(CO OR COS)

625430 CATALYST
625249 CATALYSTS
800257 CATALYST
(CATALYST OR CATALYSTS)
4432 CO-CATALYST
(CO(W) CATALYST)
L4 20 L3 AND (COMPLEX OR CO-CATALYST)

=> d 1-20

L4 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 2002:894443 CAPLUS
DN 138:122426
T1 Asymmetric Transformations of Acyloxyphenyl Ketones by Enzyme
-Metal Multicatalysis
AU Kim, Mahn-Joo; Choi, Min Young; Han, Min Young; Choi, Yoon Kyung; Lee, Jae
Kwan; Park, Jaiwook
CS National Research Laboratory of Chirotechnology, Department of Chemistry,
Division of Molecular and Life Sciences, Pohang University of Science and
Technology, Yongsu, 790-784, S. Korea
SO Journal of Organic Chemistry (2002), 67(26), 9481-9483
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 138:122426
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 2002:548947 CAPLUS
DN 137:311016
T1 Aminocyclopentadienyl ruthenium chloride: Catalytic racemization
and dynamic kinetic resolution of alcohols at ambient temperature
AU Choi, Jun Ho; Kim, Yu Hwan; Nam, Se Hyun; Shin, Seung Tae; Kim, Mahn-Joo;
Park, Jaiwook
CS National Research Laboratory of Chirotechnology Department of Chemistry
Division of Molecular and Life Sciences, Pohang University of Science and
Technology (POSTECH), Pohang, 790-784, S. Korea
SO Angewandte Chemie, International Edition (2002), 41(13), 2373-2376
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 137:311016
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS

[illegible]

L4 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:490162 CAPLUS
 DN 133:237398
 TI Practical Ruthenium/Lipase-Catalyzed Asymmetric Transformations of Ketones and Enol Acetates to Chiral Acetates
 AU Jung, Hyun M.; Koh, Jeong H.; Kim, Mahn-Joo; Park, Jai-wook
 CS Department of Chemistry Division of Molecular Life Science, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, S. Korea
 SO ORGANIC LETTERS (2000), 2(16), 2487-2490
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 133:237398
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:619407 CAPLUS
 DN 132:61087
 TI Membrane-permeant peptide complexes for medical imaging, diagnostics, and pharmaceutical therapy
 IN Pivnicka-Worms, David
 PA Washington University, USA
 SO PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PI WO 9967284 A2 1999:1229 APPLICATION NO. DATE
 WO 9967284 A3 2000:0406 WO 1999-US13660 19990618
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, ZA, ZW, AM, AZ, BY, CY, CZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2328457 AA 1999:1229 CA 1999-2328457 19990618
 AU 9946905 A1 2000:0110 AU 1999-46905 19990618
 AU 755564 B2 2002:1212
 EP 1090032 A2 2001:0411 EP 1999-930351 19990618
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LI, LU, NL, SE, MC, PT, IE, FI
 US 6348185 B1 2002:0219 US 1999-336093 19990618
 JP 2002:518521 T2 2002:0625 JP 2000-555935 19990618
 PRAI US 1998-90087P P 1998:0620
 WO 1999-US13660 W 19990618

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:249388 CAPLUS
 DN 131:67989
 TI Anticancer properties and nitric oxide synthase inhibitory action of new ruthenium complexes
 AU Beirith, Alessandro; Creczynski-Pasa, Tania B.; Bonetti, Vilson R.; Konzen, Marion; Seifritz, Ilana; Paula, Marcos S.; Franco, Cesar V.; Calixto, Joao B.
 CS Centre of Biological Sciences, Department of Pharmacology, Federal University of Santa Catarina, Florianopolis, 88015-420, Brazil
 SO European Journal of Pharmacology (1999), 369(3), 289-297
 CODEN: EJPHAZ; ISSN: 0014-2999

PB Elsevier Science B.V.
 DT Journal
 LA English
 RE.CNT 33 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:197670 CAPLUS
 DN 128:254896
 TI Multi-array, multi-specific electrochemiluminescent testing
 IN Wohlstadt, Jacob N.; Wilbur, James; Sigal, George; Martin, Mark; Guo, Liang-Hong; Fischer, Alan; Leland, Jon; Billadeau, Mark A.; Helms, Larry R.; Darvari, Ramin
 PA Meso Scale Technologies, LLC, USA
 SO PCT Int. Appl., 288 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 5

PI WO 9812539 A1 1998:0326 APPLICATION NO. DATE
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, CY, CZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SE, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
 US 6207369 B1 2001:0327 US 1996-715163 19960917
 AU 9746495 A1 1998:0414 AU 1997-46495 19970917
 AU 743567 B2 2002:0131
 EP 944820 A1 1999:0929 EP 1997-945249 19970917
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LI, LU, NL, SE, MC, PT, IE, FI
 JP 2001:503856 T2 2001:0321 JP 1998-514984 19970917
 PRAI US 1996-715163 A 1996:0917
 US 1995-402076 B2 1995:0310
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 WO 1997-US16942 W 1997:0917
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:672302 CAPLUS
 DN 127:136334
 TI Bioactivated diagnostic imaging contrast agents
 IN Lauffer, Randall B.; McMurry, Thomas J.; Dunham, Stephen O.; Scott, Daniel M.; Parmelee, David J.; Dumas, Stephane
 PA Epix Medical, Inc., USA
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PI WO 9736619 A2 1997:1009 APPLICATION NO. DATE
 WO 9736619 A3 1998:0129 WO 1997-US4804 19970325
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GR, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN,

YU, AM, A2, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
ML, MR, NE, SN, TD, TG
CA 2247620 AA 19971009 CA 1997-2247620 19970325
AU 9725448 A1 19971022 AU 1997-25448 19970325
AU 726914 B2 20001123
BR 9708470 A 19990413 BR 1997-8470 19970325
EP 907379 A2 19990414 EP 1997-916974 19970325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
CN 1215341 A 19990428 CN 1997-193542 19970325
NZ 331629 A 20000428 NZ 1997-331629 19970325
JP 2000050757 T2 20000620 JP 1997-535373 19970325
IL 125895 A1 20010913 IL 1997-125895 19970325
NO 9804543 A 19981126 NO 1998-4543 19980929
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KR 200005422 A 20000125 KR 1998-708176 19980930
US 2002034476 A1 20020321 US 2001-952971 20010914
PRAI US 1996-14448P P 19960401
US 1997-823643 A1 19970325
WO 1997-US4804 W 19970325

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1997-536923 CAPLUS

DN 127:187498

TI Electrochemiluminescence **enzyme** assay using metal ligand-labeled

substrates and metal **complexes**

IN Martin, Mark T.; Dong, Liwen

PA Igen International, Inc., USA; Martin, Mark T.; Dong, Liwen

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PI WO 9728275 A1 19970807 APPLICATION NO. DATE

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS,
LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

US 5804400 A 19980908 19960205

AU 9722615 A1 19970822 19970205

PRAI US 1996-596830 19960205

WO 1997-US1916 19970205

ANSWER 13 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1997-501269 CAPLUS

DN 127:106334

TI Interference free biosensor

IN Hanning, Timothy P.; Spring, Thomas G.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PI WO 9722715 A1 19970626 APPLICATION NO. DATE

WO 1996-US18889 19961125

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
US 5755953 A 19980526 US 1995-563728 19951218
EP 876506 A1 19981111 EP 1996-940610 19961125
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL
JP 20000504205 T2 20000411 JP 1997-522812 19961125
US 1995-563728 19951218
PRAI US 1996-US18889 19961125

L4 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1997-465389 CAPLUS

DN 127:161310

TI Stereoselective synthesis of .beta.-keto **esters** from

prop-2-yn-1-ols

AU Darcel, Christophe; Bruneau, Christian; Dixneuf, Pierre H.; Roberts,

Stanley M.

CS Lab. Chimie Coordination Catalyse, Univ. Rennes, Rennes, F-35042, Fr.

SO Tetrahedron (1997), 53(27), 9241-9252

CODEN: TETRA8; ISSN: 0040-4020

PB Elsevier

DT Journal

LA English

OS CASREACT 127:161310

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1997-181168 CAPLUS

DN 126:188818

TI Electrochemical biosensors and process for their preparation

IN Svorec, Josef; Miertus, Stanislaw; Stredansky, Miroslav

PA Salcom S.R.L., Italy; Svorec, Josef; Miertus, Stanislaw; Stredansky,

Miroslav

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PI WO 9702359 A1 19970123 APPLICATION NO. DATE

W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS,
JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MC, MK, MN,
MM, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA,
UG, US
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

AU 9655181 A1 19970205 AU 1996-65181 19960703

EP 847447 A1 19960617 EP 1996-924868 19960703

EP 847447 B1 19991110

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
SI, FI

AT 186572 E 19991115 AT 1996-924868 19960703

ES 2141518 T3 20000316 ES 1996-924868 19960703

US 6340597 B1 20020122 US 1997-1695 19971231

PRAI IT 1995-WI1441 A 19950705

WO 1996-EP2919 W 19960703

L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1996-272098 CAPLUS

DN 124:310843

TI **Enzyme**-triggered formation of electrochemiluminescent

ruthenium complexes

AU Dong, Liwen; Martin, Mark T.

CS IGEN, Inc., Gaithersburg, MD, 20877, USA

SO Analytical Biochemistry (1996), 236(2), 344-7

CODEN: ANECA2; ISSN: 0003-2697

PB Academic
DT Journal
LA English

L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1993:34532 CAPLUS

DN 118:34532.
TI Cardiolipin is synthesized on the matrix side of the inner membrane in rat liver mitochondria

AU Schlame, Michael; Halder, Dipak

CS Dep. Biol. Sci., St. John's Univ., Jamaica, NY, 11439, USA

SO Journal of Biological Chemistry (1993), 268(1), 74-9

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1991:400778 CAPLUS

DN 115:778

TI Covalently-linked complexes and methods for enhanced cytotoxicity and imaging

IN Anderson, David C.; Morgan, A. Charles; Abrams, Paul G.; Nichols, Everett

PA Neorx Corp., USA

SO Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 359347	A2	19900321	EP 1989-250014	19890814
EP 359347	A3	19900418		
EP 359347	B1	19921223		

US 5135736 A 19920804 US 1988-232337 19880815

US 5169933 A 19921208 US 1989-390241 19890807

CA 1334513 A1 19950221 CA 1989-608198 19890811

JP 02124833 A2 19900514 JP 1989-209992 19890814

AT 83669 E 19930115 AT 1989-250014 19890814

PRAI US 1988-232337 19880815

EP 1989-250014 19890814

L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1991:247801 CAPLUS

DN 114:247801

TI Improved preparation of 7-(N-(1-(S)-carboethoxy-3-phenylpropyl)-(S)-alanine)-1,4-dithia-7-azaspiro(4,4)nonan-8(S)-carboxylic acid

IN Edmunds, Andrew John Francis; Engeli, Peter; Muehle, Herbert

PA Sandoz A.-G., Switz.

SO Ger. (East), 16 pp.

CODEN: CEXXAS

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 283626	A5	19901017	DD 1989-327079	19890330
SU 1671163	A3	19910815	SU 1989-4613873	19890403

PRAI DD 1989-327079

OS CASREACT 114:247801

L4 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1954:15810 CAPLUS

DN 48:15810

OREF 48:29049-1.2905a-b

TI Biological activity of complex ions

CU Dwyer, F. P.; Gyarfas, Eleonora C.; Rogers, W. P.; Koch, Judith H.

CS Sydney Univ., Australia

SO Nature (1952), 170, 190-1

DT Journal

LA Unavailable

=> d abs 9

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS

AB This study evaluates the actions of the new ruthenium

complexes trans-[RuCl2(nic)4] (Complex I) and

trans-[RuCl2(i-nic)4] (Complex II) as antinociceptives, and

their interaction with nitric oxide isoenzymes and with

acetylcholine-induced relaxation of rat and rabbit aorta. Complex

II inhibited, in a graded manner, neuronal and inducible nitric oxide (NO)

synthase, and was about two fold more effective in inhibiting the neuronal

NO synthase than the inducible form of the enzyme.

Complex I was inactive. Both complexes failed to

interfere with constitutive endothelial nitric oxide synthase because they

did not change the mean arterial blood pressure of rats. The vasorelaxant

effect of acetylcholine was markedly antagonized by the complexes

I and II in rings of both rat and rabbit aorta. Complexes I and

II, given i.p., like N.omega.-nitro-L-arginine Me ester (L-NAME)

and NG-nitro-L-arginine (L-NOARG), inhibited, in a graded manner, both

phases of the pain response induced by formalin. The actions of L-NAME,

L-NOARG and Complex II, but not that of Complex I,

were largely reversed by L-arginine. Both complexes failed to

affect the motor response of animals in the rota-rod test and had no

effect in the hot-plate assay. Together, these findings provide

indications that the new ruthenium complexes, esp.

Complex II and its derivs., might be of potential therapeutic

benefit in the management of pain disorders.

=>

=> s ruthenium and kinetic resolution

72360 RUTHENIUM

20 RUTHENIUM

72360 RUTHENIUM

(RUTHENIUM OR RUTHENIUMS)

313270 KINETIC

692537 KINETICS

849255 KINETIC

(KINETIC OR KINETICS)

81952 RESOLUTION

868 RESOLUTIONS

82426 RESOLUTION

(RESOLUTION OR RESOLUTIONS)

243889 RESOLIN

5504 RESOLNS

246779 RESOLN

(RESOLN OR RESOLNS)

281379 RESOLUTION

(RESOLUTION OR RESOLN)

2569 KINETIC RESOLUTION

(KINETIC(W)RESOLUTION)

L5 76 RUTHENIUM AND KINETIC RESOLUTION

=> s 15 and ?ase

'?ASE' NOT LONG ENOUGH FOR LEFT TRUNCATION

You have entered a truncated stem whose length is less than

the minimum allowed for left truncation in the requested search field. You may increase the length of the stem to the minimum allowed and try again. Enter HELP SFIELDS to find the minimum stem length for left truncation in the requested search field.

=> s 15 and acylase

2421 ACYLASE

287 ACYLASES

2478 ACYLASE

(ACYLASE OR ACYLASES)

L6 0 L5 AND ACYLASE

=> s 15 and complex

1078955 COMPLEX

626500 COMPLEXES

1333637 COMPLEX

(COMPLEX OR COMPLEXES)

L7 46 L5 AND COMPLEX

=> s 17 and chiral

84305 CHIRAL

12 CHIRALS

84308 CHIRAL

(CHIRAL OR CHIRALS)

L8 29 L7 AND CHIRAL

=> s 18 and racemi?

38120 RACEMI?

L9 20 L8 AND RACEMI?

=> d 1-20

L9 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2003:133636 CAPLUS

DN 138:109859

TI Catalytic oxidations using ruthenium porphyrins

AU Ezhova, Maria B.; James, Brian R.

CS Department of Chemistry, University of British Columbia, Vancouver, BC, V6T 1Z1, Can.

SO Catalysis by Metal Complexes (2003), 26(Advances in Catalytic Activation of Dioxigen by Metal Complexes), 1-77

CODEN: CMCOES; ISSN: 0920-4652

PB Kluwer Academic Publishers

DT Journal; General Review

LA English

RE.CNT 281 THERE ARE 281 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2003:273130 CAPLUS

TI Asymmetric hydrogenation of an alpha...beta-unsaturated ketone by diamine(ether-phosphine)ruthenium(II) complexes and lipase-catalyzed kinetic resolution: a consecutive approach

AU Lindner, Ekkehard; Ghanem, Ashraf; Warad, Ismail; Eichele, Klaus; Mayer, Hermann A.; Schurig, Volker

CS Institute of Inorganic Chemistry, University of Tübingen, Auf der Morgenstelle 18, Tübingen, 72076, Germany

SO Tetrahedron: Asymmetry (2003), 14(8), 1045-1053

CODEN: TASYE3; ISSN: 0957-4166

PB Elsevier Science Ltd.

DT Journal

LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD

L9 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2002:548947 CAPLUS

DN 137:111016

TI Aminocyclopentadienyl ruthenium chloride: Catalytic racemisation and dynamic kinetic resolution of alcohols at ambient temperature

AU Choi, Jun Ho; Kim, Yu Hwan; Nam, Se Hyun; Shin, Seung Tae; Kim, Mahn-Joo; Park, Jaiwook

CS National Research Laboratory of Chirotechnology Department of Chemistry Division of Molecular and Life Sciences, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, S. Korea

SO Angewandte Chemie, International Edition (2002), 41(13), 2373-2376

CODEN: ACIEF5; ISSN: 1433-7851

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

OS CASREACT 137:111016

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2001:924398 CAPLUS

DN 136:199768

TI Dynamic kinetic transformation of sulfinyl chlorides: synthesis of enantiomerically pure C2-symmetric bis-sulfoxides

AU Khair, Nouredine; Araujo, Cristina S.; Alcudia, Felipe; Fernandez, Inmaculada

CS Instituto de Investigaciones Químicas, CSIC-Universidad de Sevilla, Seville, 41092, Spain

SO Journal of Organic Chemistry (2002), 67(2), 345-356

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

RE.CNT 128 THERE ARE 128 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2001:640941 CAPLUS

TI Ruthenium-catalyzed asymmetric ring-closing metathesis

AU Ward, D. William; Seiders, T. Jon; Grubbs, Robert H.

CS Department of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA

SO Abstracts of Papers, 222nd ACS National Meeting, Chicago, IL, United States, August 26-30, 2001 (2001), ORGN-578 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69BUZP

DT Conference; Meeting Abstract

LA English

L9 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 2001:494862 CAPLUS

DN 135:250841

TI Catalytic Fluorination by Halide Exchange with 16-Electron Ruthenium(II) Complexes: X-ray Structure of [Ru(mu-F)2Ru(dppf)2]PF6

AU Barhazy, Peter; Iogni, Antonio; Mezzei, Antonio

CS Laboratory of Inorganic Chemistry, Swiss Federal Institute of Technology ETH Zentrum, Zurich, CH-8092, Switz.

SO Organometallics (2001), 20(16), 3472-3477

CODEN: ORGN7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 2000:872054 CAPLUS
DN 134:178288
TI Kinetic resolution of chiral racemic alcohols by BINAP-ruthenium(II)-catalyzed hydrogenation
- AU Araneo, S. R.; Cesarotti, E.; Berta, D.
CS Università di Milano, Dipartimento di Chimica Inorganica, Metallorganica ed Analitica, Centro CNR, Milan, 20133, Italy
SO Applied Organometallic Chemistry (2000), 14(11), 735-738
CODEN: AOCHX; ISSN: 0268-2605
- PB John Wiley & Sons Ltd.
DT Journal
LA English
OS CASREACT 134:178288
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L9 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 2000:455856 CAPLUS
DN 133:222192
TI Dynamic Kinetic Resolution of Allylic Alcohols Mediated by Ruthenium- and Lipase-Based Catalysts
- AU Lee, Donghyun; Huh, Eun A.; Kim, Mahn-Joo; Jung, Hyun Min; Koh, Jeong Hwan; Park, Jaewook
CS Department of Chemistry Division of Molecular and Life Science, Pohang University of Science and Technology, Pohang Kyungbuk, 790-784, S. Korea
SO Organic Letters (2000), 2(15), 2377-2379
CODEN: ORLEF7; ISSN: 1523-7060
- PB American Chemical Society
DT Journal
LA English
OS CASREACT 133:222192
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L9 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1999:776489 CAPLUS
DN 133:119889
TI Asymmetric synthesis using new chiral (salen)ruthenium complexes
- AU Uchida, Tatsuya; Takeda, Tsuyoshi; Hamada, Tetsuya; Mihara, Jun; Irie, Ryo; Katsuki, Tsutomu
CS Graduate School of Science, Kyushu University, Japan
SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1999), 41st, 517-522
CODEN: TYKIDS
- PB Nippon Kagakai
DT Journal
LA Japanese
- L9 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1999:444675 CAPLUS
DN 131:257028
TI Photo-controlled Lewis acidity. Chiral (ON)Ru-salen-catalyzed hetero Diels-Alder reaction and kinetic resolution of racemic epoxides
- AU Mihara, Jun; Hamada, Tetsuya; Takeda, Tsuyoshi; Irie, Ryo; Katsuki, Tsutomu
CS Department Molecular Chemistry, Graduate School Science, Kyushu Univ., Fukuoka, 812, Japan
SO Synlett (1999), (7), 1160-1162
CODEN: SYNLES; ISSN: 0936-5214
- PB Georg Thieme Verlag
DT Journal

LA English
OS CASREACT 131:257028
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1997:142099 CAPLUS
DN 126:263647
TI Kinetic resolution of racemic secondary alcohols by Ru(II)-catalyzed hydrogen transfer
- AU Hashiguchi, Shoji; Fujii, Akio; Haack, Karl-Josef; Matsumura, Kazuhiko; Ikariya, Takao; Noyori, Ryoji
CS ERATO Molecular Catalysis Project, Res. Development Corporation Japan, Toyota, 470-03, Japan
SO Angewandte Chemie International Edition in English (1997), 36(3), 288-290
CODEN: ACHENY; ISSN: 0570-0833
- PB VCH
DT Journal
LA English
OS CASREACT 126:263647
- L9 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1996:528662 CAPLUS
DN 125:246828
TI New developments in chiral ruthenium (II) catalysts for asymmetric hydrogenation and synthetic applications
- AU Genet, Jean Pierre
CS Lab. Synthèse Organique Associée, Centre National Recherche Sci., Paris, 75231, Fr.
SO ACS Symposium Series (1996), 641 (Reductions in Organic Synthesis), 31-51
CODEN: ACSMCB; ISSN: 0097-6156
- PB American Chemical Society
DT Journal
LA English
- L9 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1996:401833 CAPLUS
DN 125:167365
TI Stereoselective Hydrogenation of Simple Ketones Catalyzed by Ruthenium(II) Complexes
- AU Ohkuma, Takeshi; Ooka, Hirohito; Yamakawa, Masashi; Ikariya, Takao; Noyori, Ryoji
CS ERATO Molecular Catalysis Project, Research Development Corporation of Japan, Toyota, 470-03, Japan
SO Journal of Organic Chemistry (1996), 61(15), 4872-4873
CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
DT Journal
LA English
- L9 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2003 ACS
AN 1995:746775 CAPLUS
DN 123:159432
TI Enantioselective Oxidation of Racemic Phosphines with Chiral Oxoruthenium Porphyrins and Crystal Structure of [5,10,15,20-Tetrakis[O-((2-methoxy-2-phenyl-3,3,3-trifluoropropoxy)amino)phenyl]porphyrinato]carbonyl (tetrahydrofuran) ruthenium(II) (.alpha.,.beta.,.alpha.,.beta. isomer)
- AU Le Maux, Paul; Bahri, Haasan; Simonneau, Gerard; Toupet, Loic
CS Laboratoire de Chimie Organometallique et Biologique, Université de Rennes 1, Rennes, 35042, Fr.
SO Inorganic Chemistry (1995), 34(18), 4691-7
CODEN: INOCAF; ISSN: 0020-1669
- PB American Chemical Society
DT Journal

LA English

L9 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1995:476981 CAPLUS

DN 123:143550

TI A new enantioselective synthesis of glycidates via dynamic kinetic resolution of racemic 2-chloro-3-keto esters using chiral Ru(II) complexes

AU Genet, Jean-Pierre; Cano de Andrade, M. C.; Ratovelomanana-Vidal, V. Lab. Synthèse Organique. Ec. Nationale Supérieure de Chimie de Paris, Paris, 75231, Fr.

SO Tetrahedron Letters (1995), 36(12), 2063-6

CS CODEN: TELEAV; ISSN: 0040-4039

DT Journal

LA English

L9 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1995:23857 CAPLUS

DN 122:80842

TI Dynamic kinetic resolution of cyclic .beta.-keto esters with preformed or in-situ prepared chiral diphosphine-ruthenium(II) catalysts

AU Genet, J. P.; Pfister, X.; Ratovelomanana-Vidal, V.; Pinel, C.; Laffitte, J. A. Pierre Marie Curie, Paris, 75231, Fr.

CS CODEN: TELEAV; ISSN: 0040-4039

DT Journal

LA English

L9 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1993:21717 CAPLUS

DN 118:21717

TI New 2,2'-bis(diphenylphosphino)-1,1'-binaphthylruthenium(II) complexes for asymmetric catalytic hydrogenation

AU Takaya, Hidemasa; Ohta, Tetsuo; Washima, Kazushi Fac. Eng., Kyoto Univ., Kyoto, 606, Japan

CS Advances in Chemistry Series (1992), 230(Homogeneous Transition Met. Catal. React.), 123-42

SO CODEN: ADCSAJ; ISSN: 0065-2393

DT Journal; General Review

LA English

L9 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1992:425718 CAPLUS

DN 117:25718

TI Carbamate-directed stereoselective hydrogenation and kinetic resolution of N-protected .alpha.-(.alpha.-aminoalkyl)acrylates

AU Takagi, Masatoshi; Yamamoto, Keiji Dep. Chem. Eng., Tokyo Inst. Technol., Tokyo, 152, Japan

CS Tetrahedron (1991), 47(42), 8869-82

SO CODEN: TETRA; ISSN: 0040-4020

DT Journal

LA English

OS CASREACT 117:25718

L9 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1991:608489 CAPLUS

DN 115:208489

TI Asymmetric synthesis. Practical production of D and L threonine. Dynamic kinetic resolution in rhodium and ruthenium catalyzed hydrogenation of 2-(acylamino)-3-oxobutyrates

AU Genet, J. P.; Pinel, C.; Mallart, S.; Juge, S.; Thorimbert, S.; Laffitte, J. A.

CS Lab. Synth. Org., Ec. Natl. Super. Chim. Paris, Paris, 75231, Fr.

SO Tetrahedron: Asymmetry (1991), 2(7), 555-67

DT Journal

LA English

OS CASREACT 115:208489

L9 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2003 ACS

AN 1988:94100 CAPLUS

DN 108:94100

TI Kinetic resolution of racemic allylic alcohols by BINAP-ruthenium(II) catalyzed hydrogenation

AU Kitamura, Masato; Kasahara, Isamu; Manabe, Kenji; Noyori, Ryoji; Takaya, Hidemasa

CS Inst. Mol. Sci., Nagoya Univ., Okazaki, 444, Japan

SO Journal of Organic Chemistry (1988), 53(3), 708-10

DT Journal

LA English

OS CASREACT 108:94100

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NEWS 7 Sep 03 JAPIO has been reloaded and enhanced

NEWS 8 Sep 16 Experimental properties added to the REGISTRY file-

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 NEWS 14 Nov 25 More calculated properties added to REGISTRY
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 NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 17 Dec 17 TOXCENTER enhanced with additional content
 NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
 NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENRGX, INSPEC
 NEWS 20 Feb 13 CANCELRIT is no longer being updated
 NEWS 21 Feb 24 METADEX enhancements
 NEWS 22 Feb 24 PCTGEN now available on STN
 NEWS 23 Feb 24 TENA now available on STN
 NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 25 Feb 26 PCTFULL now contains images
 NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27 Mar 20 EVENTLINE will be removed from STN
 NEWS 28 Mar 24 PAYDPAFUL now available on STN
 NEWS 29 Mar 24 Additional information for trade-named substances without structures available in REGISTRY
 NEWS 30 Apr 11 Display formats in DGENE enhanced
 NEWS 31 Apr 14 MEDLINE Reload
 NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced
 NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
 NEWS 34 Apr 21 WPIDS/WPINDEX/MPIX
 NEWS 35 Apr 28 RDISCLOSURE now available on STN
 NEWS 36 May 05 Pharmacokinetic information and systematic chemical names added to PHAR
 NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded
 NEWS 38 May 15 Supporter information for ENCOMPAT and ENCOMPLIT updated
 NEWS 39 May 16 CHEMREACT will be removed from STN
 NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
 NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0b(JP),
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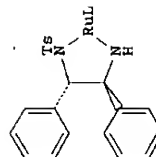
-> s 1997:142099/an
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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 19971142099 CAPLUS
 DOCUMENT NUMBER: 126:263647

TITLE: Kinetic resolution of racemic secondary alcohols by RuII-catalyzed hydrogen transfer
 AUTHOR(S): Hashiguchi, Shohei; Fujii, Akio; Haack, Karl-Josef; Matsumura, Kazuhiko; Ikariya, Takao; Noyori, Ryoji
 CORPORATE SOURCE: ERATO Molecular Catalysis Project, Res. Development Corporation Japan, Toyota, 470-03, Japan
 SOURCE: Angewandte Chemie, International edition in English (1997), 36(3), 288-290
 CODEN: ACHMAY; ISSN: 0570-0833

PUBLISHER: VCH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 126:263647
 GI



AB Chiral Ru(II) complexes (S,S)-1 (L = p-cymene, mesitylene) catalyzed the kinetic resolution of racemic secondary alcs. [e.g., p-RcH4CHMeOH (R = H, MeO, Me2N), PhCH:CHCHMeOH, 1-(hydroxyethyl)ferrocene, 1-tetralol, 1-indanol, etc.] by transfer hydrogenation in Me2CO. The S enantiomer was converted to the corresponding ketone, leaving the unreacted R enantiomer in 92-99% e.e. at approx.50% conversion.

-> s ruthenium and lipase

- L4 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:931631 CAPLUS
 DOCUMENT NUMBER: 138:186421
 TITLE: Dynamic kinetic resolutions and asymmetric transformations by enzymes coupled with metal catalysis
- AUTHOR(S): Kim, Mahn-Joo; Ahn, Yongsu; Park, Jaiwook
 CORPORATE SOURCE: Division of Molecular and Life Sciences, Department of Chemistry, National Research Laboratory of Chirotechnology, Pohang University of Science and Technology, Kyungbuk, 790-784, S. Korea
 SOURCE: Current Opinion in Biotechnology (2002), 13(6), 578-587
 CODEN: COBEB3; ISSN: 0958-1669
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
- AB A review, with refs. The combination of enzyme and metal catalysis is described as a useful method for the synthesis of optically active compounds. A key feature of this new methodol. is the use of metal catalysts for the in situ racemization of enantiomerically unreactive enantiomers in the enzymic resolu. of racemic substrates. So far, two combinations - lipase-ruthenium and lipase-palladium - have been developed for the efficient dynamic kinetic resolu. of alcs. and amines. The use of these combinations has also been extended to catalysis of the asym. transformation of ketones, their enol acetates, and ketonimes. In most cases, enzyme-metal combination catalysis has provided good yields and high optical purities. Coupled enzyme-metal catalysis is a new approach for the dynamic kinetic resolu. and asym. transformations and provides a useful alternative to conventional chem. or enzymic methods.
- REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:850431 CAPLUS
 DOCUMENT NUMBER: 138:106546
 TITLE: Chemoenzymatic Dynamic Kinetic Resolution of .beta.-Halo Alcohols: An Efficient Route to Chiral Epoxides
- AUTHOR(S): Pamies, Oscar; Baekvall, Jan-E.
 CORPORATE SOURCE: Department of Organic Chemistry, Arrhenius Laboratory, Stockholm University, Stockholm, SE-10691, Swed.
 SOURCE: Journal of Organic Chemistry (2002), 67(25), 9006-9010
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
- OTHER SOURCE(S): CASREACT 138:106546
 AB Enzymic resolu. of .beta.-chloro alcs. in combination with ruthenium-catalyzed alc. isomerization led to a successful dynamic kinetic resolu. (conversion up to 99% and ee up to 97%). The efficiency of the DKR is dramatically reduced when .beta.-bromo alcs. are used. The presence of the bromo substituent causes decompn. of the ruthenium catalysts, which triggers the progressive deactivation of the enzyme. The synthetic utility of this procedure has been illustrated by the practical synthesis of different chiral epoxides.
- REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:858574 CAPLUS
 DOCUMENT NUMBER: 138:271003
 TITLE: Efficient lipase-catalyzed kinetic resolution and dynamic kinetic transformation to chiral .beta.-hydroxy acids and .gamma.-amino alcohols
- AUTHOR(S): Pamies, Oscar; Baekvall, Jan-E.
 CORPORATE SOURCE: Department of Organic Chemistry, Arrhenius Laboratory, Stockholm University, Stockholm, 106 91, Swed.
 SOURCE: Advanced Synthesis & Catalysis (2002), 344(9), 947-952
 CODEN: ASCAF7; ISSN: 1615-4150
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
- AB Chemoenzymic dynamic kinetic resolu. of .beta.-hydroxy nitriles has been carried out using Candida antarctica lipase B and a ruthenium catalyst. The use of a hydrogen source to depress ketone formation in the dynamic kinetic resolu. yields the acetates in good yield and high enantioselectivity. It is shown that the ruthenium catalyst and the enzyme can be recycled when used in sep. reactions. Enantiomerically pure .beta.-hydroxy acid derivs. and .gamma.-amino alcs. were prepd. from the hydroxy nitriles and acetates. The latter compds. were also used to establish the correct abs. configuration of the hydroxy nitriles and acetates.
- REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:614229 CAPLUS
 TITLE: Dynamic resolution by lipase-ruthenium bicatalysis
- AUTHOR(S): Kim, Mahn-Joo; Kim, Daeho; Choi, Yoon Kyung; Park, Jaiwook
 CORPORATE SOURCE: Department of Chemistry, Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang, 790-784, S. Korea
 SOURCE: Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), BIOT-273. American Chemical Society: Washington, D. C.
- DOCUMENT TYPE: Conference; Meeting Abstract
 LANGUAGE: English
- AB The complete transformation of a racemic mixt. into a single enantiomer is one of the current challenging problems in asym. synthesis. As a new strategy for such transformation we have studied the dynamic resolu. by enzyme-metal bicatalysis, in which enzyme acts as the enantioselective catalyst and metal as the racemization catalyst. In the meeting, we wish to present some of the recent results from the studies on the dynamic resolu. of secondary alcs., including the synthesis and use of a more efficient racemization catalyst. The results from the dynamic resolu. of simple and functionalized substrates will be given with exptl. detail.
- L4 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:548947 CAPLUS
 DOCUMENT NUMBER: 137:311016
 TITLE: Aminocyclopentadienyl ruthenium chloride: Catalytic racemization and dynamic kinetic resolution of alcohols at ambient temperature
- AUTHOR(S): Choi, Jun Ho; Kim, Yu Hwan; Nam, Se Hyun; Shin, Seung Tae; Kim, Mahn-Joo; Park, Jaiwook
 CORPORATE SOURCE: National Research Laboratory of Chirotechnology, Department of Chemistry Division of Molecular and Life Sciences, Pohang University of Science and Technology

SOURCE: (POSTECH), Pohang, 790-784, S. Korea
Angewandte Chemie, International Edition (2002),
41(13), 2373-2376
CODEN: ACPH5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:311016
AB Novel racemization catalyst is prepd., [RuCl(CO)2(.eta.5-cyclo-
C5Ph4HCHMe2)] (I), which improves dramatically the ruthenium
-enzyme tandem dynamic kinetic resn. (DKR) of secondary
alcs. The DKR proceeds at room temp. with isopropenyl acetate as
an acyl donor and requires less lipase than with racemization
catalysts described earlier. The structure of I was detd. by x-ray
diffraction.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

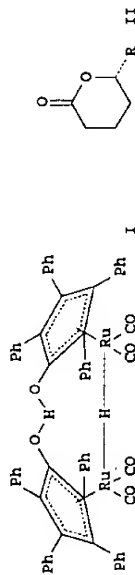
L4 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:64783 CAPLUS
DOCUMENT NUMBER: 136:263059

TITLE: Enzymatic Kinetic Resolution and
Chemoenzymatic Dynamic Kinetic Resolution of
.delta.-Hydroxy Esters. An Efficient Route
to Chiral .delta.-Lactones

AUTHOR(S): Panies, Oscar; Backvall, Jan-E.
CORPORATE SOURCE: Arrhenius Laboratory, Department of Organic Chemistry,
Stockholm University, Stockholm, SE-106 91, Swed.
SOURCE: Journal of Organic Chemistry (2002), 67(4), 1261-1265
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:263059



AB Racemic .delta.-hydroxy esters RCH(OH)CH2CH2CH2CO2CMe3 (R = Me,
Et) underwent kinetic resn. by lipase-catalyzed
transesterification with 4-chlorophenyl acetate in toluene to give
nonracemic .delta.-acetoxy esters (R)-RCH(OAc)CH2CH2CH2CO2CMe3
(R = Me, Et) and the (S)-.delta.-hydroxy esters
RCH(OH)CH2CH2CH2CO2CMe3 (R = Et) in 98-99% ee (E value up to 360). When
the Shvo ruthenium isomerization catalyst I was added to the
enzymic acylation conditions, the combination of the enzymic kinetic
resn. with a ruthenium-catalyzed alc.
racemization led to an efficient dynamic kinetic resn. of the
.delta.-hydroxy esters to give (R)-RCH(OAc)CH2CH2CH2CO2CMe3 in
87-89% yields and in ee up to 99%. The .delta.-hydroxy esters
were converted to .delta.-lactones II, important building blocks in the
synthesis of natural products and biol. active compds., by deacetylation
with lithium hydroxide in toluene/methanol followed by deacetylation
hydrochloric acid. (S)-5-(tert-butylidimethylsiloxy)heptanal
(S)-EtCH(OTBDMS)CH2CH2CH2CHO (TBDMS = tert-butylidimethylsilyl), a key

intermediate in the synthesis of widely used com. insecticide Spinosyn A,
was prepd. from (S)-EtCH(OH)CH2CH2CH2CO2CMe3 by silylation of the
secondary alc. followed by reductn. of the ester with
diisobutylaluminum hydride.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:669911 CAPLUS
DOCUMENT NUMBER: 136:37080

TITLE: Efficient lipase-catalyzed kinetic
resolution and dynamic kinetic
resolution of .beta.-hydroxy nitriles. A route
to useful precursors for gamma.-amino
alcohols

AUTHOR(S): Panies, Oscar; Backvall, Jan-E.
CORPORATE SOURCE: Department of Organic Chemistry, Arrhenius Laboratory,
Stockholm University, Stockholm, 106 91, Swed.
SOURCE: Advanced Synthesis & Catalysis (2001), 343(6+7),
726-731

PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB An efficient kinetic resn. of racemic .beta.-hydroxy nitriles
was performed via Candida antarctica lipase (N-435)-catalyzed
transesterification. A variety of racemic alkyl, aryl, and aryloxymethyl
substituted .beta.-hydroxy nitriles was efficiently transformed to the
corresponding enantiomerically pure acetates (ee >98% and conversion =
50%) with E values from 40 to >1000. The combination of the enzymic
kinetic resn. with a ruthenium-catalyzed alc.
racemization led to a dynamic kinetic resn. (ee's up to 99%,
yields up to 85%).

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:418874 CAPLUS
DOCUMENT NUMBER: 135:19231

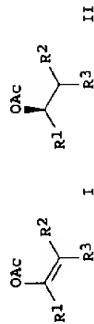
TITLE: Stereoselective method for preparing chiral
esters from alkenyl esters via
ruthenium catalyzed reduction and enzymic
resolution

INVENTOR(S): Park, Jai Wook; Kim, Mahn-joo; Koh, Jeong Hwan; Jung,
Hyun Min
PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea; Pohang
University of Science and Technology
SOURCE: Pct Int. Appl., 19 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001/040157	A1	20010607	WO 2000-KR1169	20001018
W:	AB, AC, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BK, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BZ, CA, CH, CN, CU, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, RM, GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF.			

CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, ID, TG
 EP 1237637 A1 20020911 EP 2000-971838 20001018
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003515336 T2 20030807 JP 2001-541847 20001018
 US 2001012898 A1 20010809 US 2000-726412 20001201
 US 6475773 B2 20021105
 KR 1999-54472 A 19991202
 WO 2000-KR1169 W 20001018
 CASREACT 135:19231; MARPAT 135:19231
 OTHER SOURCE(S):
 GI

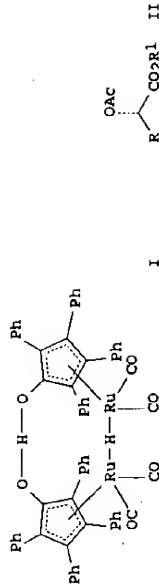


AB A method for prep. optically pure chiral esters I (R1, R2 and R3 = independently (un)substituted alkyl, aryl or cycloalkyl group and R1 and R2, R1 and R3, and R2 and R3 can form a cyclic ring; substituent may be halogen or cyano group) in high yield from alkenyl esters via ruthenium catalyzed redn./racemization with successive enzymic resolu. is disclosed. For example, II was synthesized in 89% yield (98% enantiomeric excess) by mixing 1-phenylethyl acetate with 2,6-dimethylheptan-4-ol, a ruthenium catalyst, and Novozym 435 followed by heating under Argon with subsequent chromatog. purifn. The chiral esters obtained can be used as synthetic intermediates for prep. various chiral compds., chiral pharmaceutical drugs (e.g. atorvastatin and Agenerase) or chiral agrochems. (e.g. l-Carnitine).
 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS
 2000:455856 CAPLUS
 133:222192
 ACCESSION NUMBER:
 133:222192
 DOCUMENT NUMBER:
 TITLE:
 Dynamic Kinetic Resolution of Allylic Alcohols Mediated by Ruthenium- and Lipase-Based Catalysts
 AUTHOR(S):
 Lee, Donghyun; Huh, Sun A.; Kim, Mahn-Joo; Jung, Hyun Min; Koh, Jeong Hwan; Park, Jaiwook
 CORPORATE SOURCE:
 Department of Chemistry Division of Molecular and Life Science, Pohang Kyungbuk, 790-784, S. Korea
 SOURCE:
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER:
 American Chemical Society
 DOCUMENT TYPE:
 Journal
 LANGUAGE:
 English
 OTHER SOURCE(S):
 CASREACT 133:222192
 AB An enzyme-metal combo reaction has been developed for the dynamic kinetic resolu. of allylic alcs. in which racemic substrates are transformed by a lipase and a ruthenium complex of high optical purity in over 80% yield.
 REFERENCE COUNT: 23
 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS
 2000:196518 CAPLUS
 132:133983
 ACCESSION NUMBER:
 2000:196518 CAPLUS
 DOCUMENT NUMBER:
 132:133983
 TITLE:
 Dynamic Kinetic Resolution of

alpha.-Hydroxy Acid Esters
 Huerta, Fernando F.; Laxmi, Y. R. Santosh; Baeckvall, Jan-E.
 CORPORATE SOURCE:
 Department of Organic Chemistry Arrhenius Laboratory, Stockholm University, Stockholm, SE-106 91, Swed.
 SOURCE:
 ORGANIC LETTERS (2000), 2(18), 1037-1040
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER:
 American Chemical Society
 DOCUMENT TYPE:
 Journal
 LANGUAGE:
 English
 OTHER SOURCE(S):
 CASREACT 132:333983
 GI



AB Enzymic resolu. of alpha.-hydroxy esters RCH(OH)CO2R1 (R = Bu, Ph, 4-MeOC6H4, PhCH2CH2, 4-BrC6H4, cyclohexyl; R1 = Me, Et) in combination with ruthenium-catalyzed racemization with the dimeric ruthenium catalyst I led to dynamic resolu. of the alpha.-hydroxy esters to give esters II in good yields and excellent ee's. E.g., Me alpha.-hydroxy-4-methoxyphenylacetate and 4-chlorophenyl acetate were dissolved in cyclohexane; argon was bubbled through the soln. and the soln. was injected by cannula into a Schlenk flask with 2 mol% catalyst I and 30 mg of Pseudomonas cepacia lipase PS-C and heated for 48h and 60 degree. to give acetate II (R = 4-MeOC6H4; R1 = Me) in 76% yield and in 94% ee.
 REFERENCE COUNT: 17
 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2003 ACS
 1999:523300 CAPLUS
 131:286217
 ACCESSION NUMBER:
 1999:523300 CAPLUS
 DOCUMENT NUMBER:
 131:286217
 TITLE:
 Enzymatic resolution of secondary alcohols coupled with ruthenium-catalyzed racemization without hydrogen mediator
 AUTHOR(S):
 Koh, Jeong Hwan; Jung, Hyun Min; Kim, Mahn-Joo; Park, Jaiwook
 CORPORATE SOURCE:
 Department of Chemistry and Center for Biofunctional Molecules, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, S. Korea
 SOURCE:
 Tetrahedron Letters (1999), 40(34), 6281-6284
 CODEN: TETLEA; ISSN: 0040-4039
 PUBLISHER:
 Elsevier Science Ltd.
 DOCUMENT TYPE:
 Journal
 LANGUAGE:
 English
 OTHER SOURCE(S):
 AB (.eta.5-Indenyl)RuCl(PPh3)2 was found to catalyze the racemization of secondary alcs. in the presence of triethylamine and oxygen. Unlike previously reported metal-catalyzed racemization, ketones were not required as hydrogen mediators in our process. The Ru-catalyzed racemization was coupled with enzymic acetylation for the dynamic kinetic resolu. of secondary alcs. to give chiral acetates in good yields (60-98%) with high enantioselectivities (82-99% ee). For example, chloro(.eta.5-indenyl)bis(triphenylphosphine)ruthenium

-catalyzed racemization of (+, -)-1-phenylethanol coupled with
lipase-catalyzed acetylation gave (R)-1-phenylethanol acetate in
85% yield (96% enantiomeric excess).
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:107616 CAPLUS
DOCUMENT NUMBER: 130:266981
TITLE: Ruthenium- and Enzyme-Catalyzed Dynamic
Kinetic Resolution of Secondary
Alcohols
AUTHOR(S): Persson, B. Anders; Larsson, Anna L. E.; Le Ray,
Mikael; Baekvall, Jan-E.
CORPORATE SOURCE: Departments of Organic Chemistry, Uppsala University,
Uppsala, S-751 21, Sweden.
SOURCE: Journal of the American Chemical Society (1999),
121(8), 1645-1650.
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Enzymic resolu. of secondary alcs. under substrate
racemizing conditions was studied using an immobilized lipase
from Candida antarctica in the presence of a Ru catalyst. A specifically
designed acyl donor, 4-chlorophenyl acetate, is compatible with both
catalysts and resulted in an efficient dynamic kinetic resolu.
Studies of the reaction in different solvents showed that nonpolar
solvents gave the best results. With this process, racemic secondary
alcs. were transformed to the corresponding enantiomerically pure
acetates, making efficient use of all starting material. In most cases,
the reaction proceeded with >99% ee and in good yield.

REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:644675 CAPLUS
DOCUMENT NUMBER: 126:18612
TITLE: Catalytic racemization of alcohols:
applications to enzymic resolution reactions
AUTHOR(S): Dinh, Phi M.; Howarth, Judith A.; Hudnott, Anna R.;
Williams, Jonathan M. J.; Harris, William
CORPORATE SOURCE: Dep. Chemistry, Loughborough Univ., Loughborough,
Leicestershire, LE11 3TU, UK
SOURCE: Tetrahedron Letters (1996), 37(42), 7623-7626
CODEN: TETLEA; ISSN: 0040-4039

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The racemization of enantiomerically enriched alcs. has been
achieved using a catalyst in the presence of a suitable ketone. Aluminum,
rhodium or iridium catalysts have been successfully employed. This
methodol. allows recycling of substrate for enzymic resolu.
reactions.

L4 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:471761 CAPLUS
DOCUMENT NUMBER: 115:71761
TITLE: An efficient preparation of the optically active
-gamma.-hydroxy stannanes using lipase
-catalyzed hydrolysis
AUTHOR(S): Itoh, Toshiyuki; Ohta, Tadataka; Sano, Mitsue
CORPORATE SOURCE: Fac. Educ., Okayama Univ., Okayama, 700, Japan
SOURCE: Tetrahedron Letters (1990), 31(44), 6387-90
CODEN: TETLEA; ISSN: 0040-4039

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:71761
AB A perfect optical resolu. of gamma.-hydroxystannanes was
demonstrated by the method of lipase-catalyzed enantioselective
hydrolysis of the corresponding racemic acetates using lipase
P(Pseudomonas sp.).

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ANSWER 1 CASREACT COPYRIGHT 2003 ACS
AN 115:71761 CASREACT
TI An efficient preparation of the optically active -gamma.-hydroxy stannanes
using lipase-catalyzed hydrolysis
AU Itoh, Toshiyuki; Ohta, Tadataka; Sano, Mitsue
CS Fac. Educ., Okayama Univ., Okayama, 700, Japan
SO Tetrahedron Letters (1990), 31(44), 6387-90
CODEN: TETLEA; ISSN: 0040-4039
DT Journal
LA English
CC 29-8 (Organometallic and Organometalloidal Compounds)
AB A perfect optical resolu. of gamma.-hydroxystannanes was demonstrated by

C[C@H]1CCCC1=O >> C[C@H]1CCCC1O

RX(4) RCT I 135218-88-1
RGT K 12137-42-7 Rhenium oxide peroxide (ReO2(O2)), (T-4)-, L
7790-28-5 NaIO4
PRO J 69830-92-8
SOL 75-05-8 MeCN, 56-23-5 CCl4

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ENTRY	-0.62	SESSION -12.34

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